

Claims:

1. A method for a preliminary treatment of particles of a powder in a dry surface treatment process before applying the powder particles on a surface of a substrate by utilizing an electric field created by electrodes, which are located at opposite sides of the substrate in such a way that at least one first electrode is located at the side of the substrate to be coated, and at least one second electrode is located at the opposite side of the substrate, **characterized** in that the particles of the powder are pre-charged before bringing them into the electric field.
2. The method according to claim 1, **characterized** in that at least one first electrode comprising a feeding nozzle is located at a longer distance from the substrate than the other electrode/s at the same side in such a manner that the pre-charging is effected.
3. The method according to claim 1, **characterized** in that a separate electric field is created outside the electric field created between the first and second electrode/s at the side of the substrate to be coated by the powder particles, and the pre-charging is effected in the separate electric field.
4. The method according to claim 3, **characterized** in that the separate electric field is created in a charging unit comprising a corona charging electrode, a grounding electrode and a feeding nozzle.